

ABSTRACT OF THE DISCLOSURE

A position micro-perturbation device is disclosed, comprising two wedge-shaped lenses mounted coaxially and rotatable with respect to each other to change the light path of an image and bring about position micro-perturbation. A photodetector is used to pick up the image as a result of the position micro-perturbation, and an image-processing algorithm is further used for calculation. The amount of displacement and direction of the light path of the image is freely adjustable so that the position micro-perturbation can be occurred at any position. Hence, the resolution of the photodetector is high. Furthermore, because fewer wedge-shaped lenses mounted coaxially are used, the size of the position micro-perturbation device, as a whole, can be small and achieved at reasonable cost.